

20010609.qrp v02_n215.qrl.20010609

Date: Sat, 9 Jun 2001 19:03:12 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 2215

QRP-L Digest 2215

Topics covered in this issue include:

- 1) [99717] Solar/Saturday/SST
by "N7SG K7FD" <k7fd@hotmail.com>
- 2) [99718] Re: OT Kinda - Antenna Modeling
by "Bob Tellefsen" <n6wg@earthlink.net>
- 3) [99719] IC-746 for trade
by "Marty N5NW" <n5nw@onebox.com>
- 4) [99720] Re: Source of Solid Enameled Wire
by "Rick Austin" <rick@ltcable.com>
- 5) [99721] MH101: Super Glue and IC pads
by John Wagner <john@neknetwork.com>
- 6) [99722] Need help with Azden 2 meter rig PLEASE!!
by RangerSF5@aol.com
- 7) [99723] MH101: Duh
by John Wagner <john@neknetwork.com>
- 8) [99724] Re: G5RV Balun Use Question
by "James R. Duffey" <jamesd1@flash.net>
- 9) [99725] Re: MH101: Duh
by "Chuck Adams, K7Q0" <k7qo@earthlink.net>
- 10) [99726] new stuff
by "Steven Weber" <kd1jv@moose.ncia.net>
- 11) [99727] G5RV article, Parts 1 - 4
by wb2vuo@juno.com
- 12) [99728] More G5RV info
by wb2vuo@juno.com
- 13) [99729] LZ2RS/QRP on 14.060 @ 0353Z
by David Gauding <david.gauding@bbs.galilei.com>
- 14) [99730] Re: LZ2RS/QRP on 14.060 @ 0353Z
by "Steve Yates, AA5TB" <aa5tb@arrl.net>
- 15) [99731] MH101 VFO portion complete and ready to test
by "Glenn Maclean" <wa7spy@home.com>
- 16) [99732] Re: LZ2RS/QRP on 14.060 @ 0353Z
by David Gauding <david.gauding@bbs.galilei.com>
- 17) [99733] Vertical Antenna Advice
by "Kevin Nathan" <k7rx@qwest.net>
- 18) [99734] Re: Vertical Antenna Advice
by PTSMANTUA@aol.com
- 19) [99735] Is QRP-L OK?

by Bill Lazure <n2tpa@juno.com>

20) [99736] subscribe qrp-l Bill Lazure W2EB
by Bill Lazure <n2tpa@juno.com>

21) [99737] Re: Is QRP-L OK?
by "Ingo DK3RED" <dk3red@t-online.de>

22) [99738] SUBSCRIBE QRP-L
by K2YEW@aol.com

23) [99739] Re: Verticle Antenna Advice
by "Terry Bassett" <mutabut@net66.com>

24) [99740] Re: Vertical Antenna Advice
by Phil Wheeler <w7ox@earthlink.net>

25) [99741] Re: Vertical Antenna Advice
by "Rick Austin" <rick@ltcable.com>

26) [99742] RE: Verticle Antenna Advice
by "Brian B. Riley, N1BQ" <n1bq@wulfdn.org>

27) [99743] Re: Verticle Antenna Advice
by Phil Wheeler <w7ox@earthlink.net>

28) [99744] Re: Vertical Antenna Advice
by "Ed Juge/NM" <ed_juge@zianet.com>

29) [99745] Re: Source of Solid Enameled Wire
by <brownh@hartford-hwp.com>

30) [99746] Operation from St. Pete Beach and Treasure Island Florida (NA-034)
by "Gary Powell\"(n4dl_qrp\)" <n4dl_qrp@worldnet.att.net>

31) [99747] Re: Vertical Antenna Advice
by Louis Hlousek <lhlousek@nvhbell.net>

32) [99748] Yes, but Juno sure isn't Fw: Is QRP-L OK?
by "Walt Amos K8CV" <k8cv@netzero.net>

33) [99749] Re: Yes, but Juno sure isn't Fw: Is QRP-L OK?
by "JOSEPH PIRKLE" <ad4ih@worldnet.att.net>

34) [99750] Re: Yes, but Juno sure isn't Fw: Is QRP-L OK?
by Larry Cahoon <lejek@erols.com>

35) [99751] Looking for Ed Manuel
by Michael Goins <mgoins@usa.net>

36) [99752] Fox - Summer Teams -
by Bruce Rattray <rattray@gpfn.sk.ca>

37) [99753] Re: Looking for Ed Manuel
by K5BDZ@aol.com

38) [99754] Re: Vertical Antenna Advice
by "George Heron N2APB" <n2apb@erols.com>

39) [99755] TEST #2
by "Phil (VA3UX)" <phil@vaxxine.com>

40) [99756] Sale/trade
by Bob Welch <p326@earthlink.net>

41) [99757] FS or Swap HTX-100
by Rusticartist@aol.com

42) [99758] Maine AT alert
by "Steven Weber" <kd1jv@moose.ncia.net>

43) [99759] Thanks

- by Kenneth Hoglund <hoglund@wfu.edu>
- 44) [99760] Re: [MH101] K8IQY pics, K7Q0 patented IC pad maker, etc.
by Steve Elkind <selkind@cyburban.com>
- 45) [99761] NH AT Trail Alert for Sunday
by Ed Lawson <elawson@lawson-philpot.com>
- 46) [99762] RE: TEST #2
by "John L. Sielke" <w2agn@pobox.com>
- 47) [99763] Build a kit for someone?
by "George Heron N2APB" <n2apb@erols.com>
- 48) [99764] Battery changing/charging shedule
by Goran Hosinsky <hosinsky@jet.es>
- 49) [99765] RE: Verticle Antenna Advice
by Dave Fouchey <dafouchey@home.com>
- 50) [99766] Pays to explain to the right person
by RangerSF5@aol.com
- 51) [99767] QRP Forum @ HamCom2001
by "Conant, Paul" <paul.conant@lmco.com>
- 52) [99768] Re: [99689] Summary FD Laptop power suggestions
by Doug Faunt N6TQS +1-510-655-8604 <faunt@panix.com>
- 53) [99769] Re: [99713] Re: OT: Save BBC Coalition
by Doug Faunt N6TQS +1-510-655-8604 <faunt@panix.com>
- 54) [99770] "Preferred Building Method" Survey Results
by "Dennis Payton" <dpayton@fwi.com>
- 55) [99771] XE2/W0IS Update
by Richard Clem <clem.law@usa.net>
- 56) [99772] Re: Vertical Antenna Advice
by Bob Nielsen <nielsen@oz.net>
- 57) [99773] Lots of Fun...
by Fred Lesnick <flesnick@tbaytel.net>
- 58) [99774] Re: Thanks
by George Franklin <w0av@juno.com>

Date: Fri, 08 Jun 2001 16:05:25 -0700
From: "N7SG K7FD" <k7fd@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [99717] Solar/Saturday/SST
Message-ID: <F264oBjUMw66IYD8An000014912@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Solar nr's looking like they're picking up so please be on the lookout for my SST on 20m 14.060+- this Saturday. Would love to put you in our club logbook tomorrow...

73, John, op at K7Low

Get your FREE download of MSN Explorer at <http://explorer.msn.com>

Date: Fri, 8 Jun 2001 16:32:50 -0700
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-1@Lehigh.EDU>
Subject: [99718] Re: OT Kinda - Antenna Modeling
Message-ID: <MABBJOEABOILMKCJCLFCCEBCCIAA.n6wg@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Ed
The element spacing is center to center.
At 15 meters, a fraction of an inch either way is not important.
The important thing is to experiment for the best dimensions that
give you what you want, whether it is max gain, max f/b ratio, 50 ohm
feed point, whatever.
I really enjoy "what iffing" with EZNEC.
73, Bob N6WG

Date: Fri, 8 Jun 2001 19:36:38 -0400
From: "Marty N5NW" <n5nw@onebox.com>
To: "QRP List" <qrp-1@lehigh.edu>
Subject: [99719] IC-746 for trade
Message-ID: <000901c0f073\$ddced980\$04b51b26@laptop>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Moving from Memphis to Dayton, Ohio. Relocation to a townhome forces me to
downsize my rig, and focus on mobile/portable operations. I have a
near-mint IC-746 all-band all-mode (160-2m) transceiver that I would like to
trade for an IC-706MkIIG with external antenna tuner or an FT-100D with
external antenna tuner. If no tuner, I'd ask for \$200 in cash plus the
706MkIIG or FT-100D for the IC-746. The 746 has one of the hottest, if not
the hottest, receiver on the market in my opinion. QRP very easy via front
panel control. Built-in auto antenna tuner. Completely variable IF DSP
(not AF like some rigs, but true IF DSP).

I also have Icom filters available for 500Hz CW in both IF slots if you are
interested. Those would be extra, however. Thanks for your attention.

73 de Marty, N5NW/8

Bellbrook, Ohio

<http://marty.w.tripod.com/>

Date: Fri, 8 Jun 2001 19:23:13 -0500
From: "Rick Austin" <rick@ltcable.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Cc: "Rod Cerkoney, N0RC" <rod@n0rc.com>, "John Sullivan" <kg0mz@swbell.net>, <sdhudson@cahners.com>, <kanga@mail.bright.net>
Subject: [99720] Re: Source of Solid Enameled Wire
Message-ID: <00fd01c0f07a\$600fd2e0\$0201a8c0@ricksnote>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Wow, what wonderful responses I received to my question about magnet wire including four offers to send me wire from personal stock. Thanks to everyone who responded and especially those who offered to send me some. (See cc line above).

If there was not an easy alternative, I would take advantage of one of these generous offers but it looks like good old Radio Shack has a low cost solution to my need. (See below)

Thanks again to all,

Rick Austin in Austin

> Just go to Radio Shack and buy the Magnet Wire Set, #278-1345, for \$3.99.
> It includes: 40' of 22-guage, 75' of 26-guage, and 200' of 30-guage.
This
> is solid, enamel insulated wire, not stranded. Still more than you need,
> but inexpensive and convenient. Hope that helps.
>

Date: Fri, 08 Jun 2001 20:50:15 -0400
From: John Wagner <john@neknetwork.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [99721] MH101: Super Glue and IC pads

Message-ID: <3B2172C7.6DB77032@neknetwork.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

I've been using el-cheapo, 4 tubes for a buck at the dollar store (it's QRP for the wallet 'eh) super glue. It's been working well, but the stuff is a little liquidy ('zat a word?) and it's easy to use too much.

While at the local drug store, I came across some 3M super glue called "3M Super Glue Gel." It was a \$1.50 a tube, but I figured I'd try it. What a difference. It's very easy to use just a little dab and since it's a Gel the pad doesn't slide around at all. Cures in the same amount of time.

I recommend it if you can find some.

I also made some 8-pin rectangular manhattan pads that are now outlined on Chuck K7QO's site. Apparently Jim Kortge K8IQY has been using this method for some time. I didn't use the miter method that Chuck talks about. I measured a slice of copper board and scratched it pretty deep with my cutting tool (more on this later). I then used a hacksaw blade to cut the strip - but I didn't cut it all the way off. This allowed me to have something to hang on to while etching the pads. Luckily I had a nice thin cutting tool that I use on my model railroad and I used that to etch the breaks for the pads.

I don't have my web page updated, but a preview pic of the results are at: <http://www.qsl.net/kb1ens/sw30/ic-pad-cut-2.jpg> - on the right is a glimpse of the cutting tool I used. It makes very thin lines (1mm). I forgot I had it! I'm sure they can be found at hobby shops that carry HO trains.

73,

John, KB1ENS

--

John Wagner - john@neknetwork.com

Web page: <http://www.neknetwork.com>

Date: Fri, 8 Jun 2001 20:50:39 EDT

From: RangerSF5@aol.com

To: qrp-l@lehigh.edu

Subject: [99722] Need help with Azden 2 meter rig PLEASE!!

Message-ID: <106.ff666e.2852ccdf@aol.com>

MIME-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi gang,
I just moved to my new QTH and lost the manual for the Azden PCS 7000.
Can someone just send me the procedure to program in a repeater, shift, tone
and how to clear the CPU?
One thing I hate about that rig is that you need to shut down and power up to
store everything.
Any help is greatly appreciated.
Many thanks in advance
Bob
WA2HOQrp <tm>

Date: Fri, 08 Jun 2001 20:59:23 -0400
From: John Wagner <john@neknetwork.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [99723] MH101: Duh
Message-ID: <3B2174EB.27634D16@neknetwork.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I need to pay more attention. I got an email from Mike KK7GG about the
NE5532 stating "it's a dual op amp package."

So I'm sitting there scratching my head wondering "why is he telling me
this?"

Then it dawned on me: it's a dual op amp package... i.e. a DUAL OP AMP

Duh!

Looking at the schematic I can see where I got confused, U4 is shown
twice, once for each side.

Duh... duh... duh... oh well, live and learn.

Thanks Mike for making me think.

73,

John, KB1ENS

--

John Wagner - john@neknetwork.com
Web page: <http://www.neknetwork.com>

Date: Fri, 08 Jun 2001 19:00:14 -0600
From: "James R. Duffey" <jamesd1@flash.net>
To: <qrp-1@lehigh.edu>
Subject: [99724] Re: G5RV Balun Use Question
Message-ID: <B746D13B.A3F4%jamesd1@flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Joel - It is good engineering practice to use a balun whenever a balanced-to-unbalanced transition is made in an antenna system. Unfortunately, most hams are not good engineers. Myself included :^)=.

A choke balun will work better than a voltage balun. The 4:1 balun will only reduce the already low impedance of the G5RV on 80 M, so use the 1:1 balun on the antenna you plan to use on 80 M. Unless it is over 100 ft high you won't see much directivity from it, so it probably won't matter which antenna you use on 80M. You can replace the 4:1 balun with an air wound choke balun made per handbook instructions if you want better performance.

If you are using a balun and antenna tuner, there is no reason to use the 1/2 wavelength transmission line section of the G5RV. You can use balanced feeder to the tuner, or near to it and then go to a balun and tuner.

I think that you will be happy with the performance of the G5RVs on field day. There is nothing like a lot of activity to make an antenna look good. -
Dr. Megacycle KK6MC/5

--
James R. Duffey KK6MC/5
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Sat, 09 Jun 2001 02:46:06 +0100
From: "Chuck Adams, K7Q0" <k7qo@earthlink.net>
To: john@neketnetwork.com, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [99725] Re: MH101: Duh
Message-ID: <5.0.2.1.0.20010609024440.00a2dc90@mail.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 08:59 PM 6/8/01 -0400, John Wagner wrote:

>Looking at the schematic I can see where I got confused, U4 is shown
>twice, once for each side.
>
>
>73,
>
>John, KB1ENS

John,

I'll go back and update the schematic and put a U4A and a U4B
as labels on the two op amps. Should be that way any way as
it is the usual method for showing multiple circuits in the
same IC.

FYI

Chuck Adams, K7QO CP-60
Prescott, AZ k7qo@earthlink.net <http://www.qsl.net/k7qo>

TMPS-2001 Jan 12th -> April 15th, 2001 States = 49 DXCC = 15

States Needed AK DXCC --- K XE VE KH6 V73 HI3 FM5 OH3 C6 ZL1 C08 ZS6 EA8 EA7
PJ ZL2

Moving to Arizona? --- Bring your own water.

Date: Fri, 8 Jun 2001 22:16:01 +0000
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: qrp-l@lehigh.edu
Subject: [99726] new stuff
Message-ID: <200106090247.f5921rC01846@wolf.ncia.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Hi Gang,
I just added the schematic of the 6M transverter to my
qsl.net web page. Also, I added a couple of pictures of my SMT

version of the DSW-40. And yes, I know the links I put on that page don't work. Fix them next time. Got the email link fixed though. Hey, I'm still learning this stuff...

72,

Steve, KD1JV in the White Mountains of New Hampshire

"Melt Solder"

<http://www.poniatowski.com/kd1jv/kd1jv.htm>

<http://www.qsl.net/kd1jv/index.html>

Date: Fri, 8 Jun 2001 23:11:44 -0400

From: wb2vuo@juno.com

To: qrp-l@lehigh.edu

Subject: [99727] G5RV article, Parts 1 - 4

Message-ID: <20010608.231304.-16524473.0.wb2vuo@juno.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Well, I had enough requests for the original article from the BARK BBS that I decided to post it here. This is the original file from the BARK PBBS, reprinted on G3YCC's site with my permission back in 96?

72/73, Keith, WB2VUO, 100% QRP from the Depths of the Great Bergen Swamp President, Brockport Amateur Radio Klub & Tech Coordinator, ARRL WNY Section

My night light runs more power than my Rig!!!

Replies - <mailto:wb2vuo@arrl.net>

NOTE: This was originally written as a 4-part series for the BARK Newsletter. The page numbers reflect the format used then...

Keith, WB2VUO

=====
Part 1

Page 1

THE G5RV ANTENNA

The G5RV is a very popular antenna on the HF amateur band today. Despite it's widespread use on the bands, there are some myths and

misconceptions concerning the G5RV that seem to have a life of their own.

Working with text from the ARRL "Antenna Compendium", Volume 1, I would like to shed some light on this versatile antenna.

First, from Louis Varney, G5RV, of West Sussex, UK, here is some back-ground and insights into the G5RV.

"The G5RV antenna, with its special feeder arrangement, is a multiband center-fed antenna capable of efficient operation on all HF bands from 3.5 to 28 MHz. Its dimensions are specifically designed so it can be installed in areas of limited space, but which can accommodate a reasonably straight run of 102 ft for the flat-top."

Louis further states that, "In contradistinction to multiband antennas in general, the full-sized G5RV antenna was NOT designed as a half-wave dipole on the lowest frequency of operation, but as a 3/2-wave center-fed long-wire antenna on 14 MHz, where the 34 ft open-wire matching section functions as a 1:1 impedance transformer. This enables the 75-ohm twin-lead, or 50/80-ohm coaxial cable feeder, to see a close impedance match on that band with a consequently low SWR on the feeder. However, on all the other HF bands, the function of this section is to act as a "make-up" section to accommodate that part of the standing wave (current and voltage components) which, on certain operating frequencies, cannot be completely accommodated on the flat-top (or inverted-V) radiating portion. The design center frequency of the full-size version is 14.150 MHz, and the dimension of 102 ft is derived from the formula for long-wire antennas which is:

$$\begin{aligned}\text{LENGTH (ft)} &= 492(n-.05)/f(\text{MHz}) \\ &= (492 \times 2.95)/14.15 \\ &= 102.57 \text{ ft (31.27 m)}\end{aligned}$$

where n = the number of half wavelengths of the wire (flat-top)

"Because the whole system will be brought to resonance by the use of a matching network in practice, the antenna is cut to 102 ft.

As the antenna does not make use of traps or ferrite beads, the dipole portion becomes progressively longer in electrical length with increasing frequency. This effect confers certain advantages over a trap or ferrite-bead loaded dipole because, with increasing electrical length,

the major lobes of the vertical component of the polar diagram tend to be

lowered as the operating frequency is increased. Thus, from 14 MHz up, most of the energy radiated in the vertical plane is at angles suitable for working DX. Furthermore, the polar diagram changes with increasing frequency from a typical half-wave dipole pattern at 3.5 MHz and a two

half-wave in-phase pattern at 7 and 10 MHz to that of a long-wire pattern at 14, 18, 21, 24 and 28 MHz.

Although the impedance match for 75-ohm twin-lead or 80-ohm coaxial cable at the base of the matching section is good on 14 MHz, and even the use of 50-ohm coaxial cable results in only about a 1.8:1 SWR on this band, the use of a suitable matching network is necessary on all the other HF bands. This is because the antenna plus the matching section will present a REACTIVE load to the feeder on those bands.

Page 2

Thus, the use of the correct type of matching network is essential in order to ensure the maximum transfer of power to the antenna from a typical transceiver having a 50-ohm coaxial (unbalanced) output. this means unbalanced input to balanced output if twin-lead feed is used, or unbalanced to unbalanced if coaxial feeder is used. A matching network is also employed to satisfy the stringent load conditions demanded by such modern equipment that has an automatic level control system. The system senses the SWR condition present at the solid state transmitter output stage to protect it from damage, which could be caused by a reactive load having an SWR of more than 2:1."

In Part 2, I will discuss the theoretical operation of the G5RV antenna band-by-band...Keith, WB2VUO

END OF PART 1.

=====

Part 2

Page 1

THE G5RV ANTENNA (PART 2)

THEORY OF OPERATION

The general theory of operation follows. As I can't put the diagrams in the file, I will paraphrase the text from the ARRL "Antenna

Compendium",
Volume 1, which is a great book for the antenna fan (NOT A COMMERCIAL,
JUST AN OBSERVATION..[WKH]). Please keep in mind that this is the
THEORETICAL information, and the actual operation will depend on
placement,
height above ground, metal siding, power lines, trees, UFO flight
patterns,
Etc

3.5 MHz: On this band, the antenna acts as a shortened half-wave
flat-top, with about 17 ft of the total length made up by the matching
section. The remainder of the matching section introduces an unavoidable
reactance to the antenna between the feedpoint and the feedline. The
antenna pattern is effectively the same as a half-wave dipole on this
band.

7 Mhz: The flat-top, plus 16 ft of the matching section makes up a
partially folded up 2 half waves in phase, (collinear) antenna. The
antenna pattern is somewhat sharper than a dipole because of its
collinear
charecteristics. The match is somewhat degraded due to the unavoidable
reactance introduced by the extra length in the matching section. This
reactance can be easily tuned out with an antenna tuning unit (ATU).

10 MHz: On this band, the antenna functions as a 2 half-wave
collinear. It is very effective, but the reactance presented at the
feedpoint requires a good ATU. The pattern is basically identical to the
7 MHz pattern.

14 MHZ: This band is where the G5RV really shines. The antenna is
operating as a $3/2$ wave long, center-fed antenna with a multi-lobed, low
angle pattern of about 14 degrees elevation, which is very effective for
working DX on this, the most popular DX band. The antenna presents a 90-
ohm load with basically no reactance present. Even the use of a 50-ohm
coaxial feed will present a SWR of only about 1.8:1, easily tuned out
with an ATU.

18 MHz: The antenna performs as 2 full-waves in phase, combining a
lower angle with the broadside gain of a collinear array. The load is
high-Z, with somewhat low reactance.

21 MHz: On this band, the antenna works as a $5/2$ -wave, center-fed
long
wire. This produces a multi-lobed, low angle radiator, with a high-Z
resistive load. When matched with the ATU, it makes a highly effective
antenna for DX contacts.

24 MHz: The antenna again functions effectively as a $5/2$ -wave long

wire, but due to the shift in the position of the current loops on the array, the load is resistive, approximating the load on 14 MHz. Again, the pattern is multi-lobed, with a low radiation angle.

28 MHz: On this band, the antenna acts as a 3-wave, center-fed long wire. The pattern is similar to 21 or 24 MHz, but with additional gain due to the colliner effect obtained by feeding two 3/2-wave antennas in phase. The load is high-Z, with low reactance.

In Part 3, I will discuss the construction of the G5RV...Keith,
WB2VUO

END OF PART 2.

=====
Part 3

Page 1

THE G5RV ANTENNA (PART 3)

CONSTRUCTION TIPS

THE FLAT-TOP:

The dimensions of the G5RV flat-top are specified in Part 1. The antenna does not need to be put up as a flat-top array, but can be installed as an inverted-V. The center of the antenna should be as high as possible, of course, and the matching section should descend at a right angle to the array.

It is recommended that the smallest wire gauge used for the flat-top be #14, although wire as small as #18 could be used. If the antenna is raised as an inverted-V, the included angle at the apex should not be less than 120 degrees.

THE MATCHING SECTION:

It is recommended that the matching section be constructed of open-wire feeder for minimum loss, as it always carries a standing wave on it. Due to the standing wave on it, the actual impedance is unimportant. A satisfactory construction technique for the open wire line matching section would be to make your own spreaders out of scrap lucite, or similar

plastic

of low dielectric loss. The plastic strips would be cut about 2 inches long,

3/8 inch to 1/2 inch wide, and be notched on the ends to fit #14 wire.

The

spreaders would be drilled about 1/2 inch in from each end for the

binding

(tie) wires, and the spacers would be spaced 12 inches center-to-center.

The next most-desirable matching section would be made from

ladder-type

open wire line, either 300-ohm, or 450-ohm. This is basically a ribbon

line, like heavy duty TV-type twin lead, with #16 to #20 wire, and

"windows"

cut in the insulation every 4 to 6 inches. The advantage of the ladder

line

is that the conductors won't short together if the line twists in a high wind.

Lastly, and the least desirable, (although it will work), is "TV-type" twin lead. The main disadvantage of the TV-type twin lead is durability. The conductors on the twin lead are usually #22 to #28 gauge, and the plastic used for the insulation deteriorates faster in the sun and/or rain. The advantage of it is that it is readily available at electronics outlets, or even most department/home improvement stores. The

quality is proportional to price, if a choice is available. Do not use the "shielded" twin lead. The shield will degrade the matching section, especially on 3.5 or 7 MHz.

MATCHING SECTION LENGTH:

The length of the matching section is an ELECTRICAL half-wave on 14 MHz. The actual physical length is determined by the following formula:

$L = (492 \times VF) / f \text{ (MHz)}$, where VF is the velocity factor of the matching section.

The velocity factor is determined by the type of line, and the dielectric properties of its insulation. For the three types of line discussed so far, the VF is:

Open wire	- .97
Ladder line	- .90
"TV" twin lead	- .82

By substituting the VF in the formula, and calculating for a center

frequency of 14.15 MHz, you come up with the following matching section lengths:

Open wire - 33.7 ft
"Window line - 31.3 ft
"TV" twin lead - 28.5 ft

This matching section is connected to the center of the array, and allowed to descend vertically at least 20 ft or more, if possible. It can then be bent and tied off to a suitable post or line, and connected to the coaxial line, which is run to the shack, and the ATU.

THE FEEDER:

In the original article describing the G5RV antenna, published in the "RSGB BULLETIN" for November 1966, it was suggested that, if a coaxial feed was used, a balun might be employed to provide the necessary balanced-to-unbalanced transformation at the base of the matching section.

However, later experiments, and a better understanding of the theory of operation of the balun indicated that such a device was unsuitable due to

the high reactance in the load presented at the base of the matching section. In a nutshell,

DON'T USE A BALUN ON THE G5RV !!!!!

If a balun is connected to a 2:1, or higher SWR, its internal losses increase. The result is core heating and/or saturation. If saturated, the core can actually distort the RF wave, generating harmonics, and in extreme

cases, with QRO, the core and balun can burn up (literally). An unbalanced-to-unbalanced ATU can accommodate the variable load, and cancel

out the reactance present. It will also tend to reduce any harmonic energy

present, which will, due to the multi-band nature of the G5RV, tend to be

radiated. In general, the automatic ATU's in modern rigs will load the G5RV

on all but the 10 MHz band, and will work there with the wider range tuners

in the newest of rigs.

END OF PART 3.

=====
Part 4

THE G5RV ANTENNA
(PART 4)

ALTERNATIVE FEED SYSTEM:

Doug DeMaw, W1FB, in his "W1FB'S ANTENNA NOTEBOOK", states that the G5RV can be fed directly with open wire to the ATU. If this is done, the antenna will load on all bands with no problems. In this case, the ATU needs to have a balanced output to accommodate the balanced line. This would lend itself to the portable operator, who could use "TV"-type twin lead, and a small tuner designed for balanced feed on all the HF bands. This would be an elegant solution for a campsite or cottage, reducing the

bulk of the gear to be carried. A convenient length of twin lead, allowing for the VF, would be 72 ft. The whole antenna would coil up into a small bucket, or even a backpack with #18 wire.

In closing, if you need a good , multi-band, and unobtrusive antler for your station, give the G5RV a try. Best of luck, and have fun!

73, Keith, WB2VUO

SOURCES:

ARRL "ANTENNA COMPENDIUM", VOLUME 1
ARRL "W1FB'S ANTENNA NOTEBOOK"
ARRL "W1FB'S NOVICE ANTENNA NOTEBOOK"
TAB PUBLICATIONS "73 WIRE AND DIPOLE ANTENNA"
EDITORS AND ENGINEERS "RADIO HANDBOOK"

END OF PART 4

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<http://dl.www.juno.com/get/tagj>.

Date: Fri, 8 Jun 2001 23:13:03 -0400

From: wb2vuo@juno.com

To: qrp-l@lehigh.edu

Subject: [99728] More G5RV info

Message-ID: <20010608.231304.-16524473.1.wb2vuo@juno.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

This was the other short article from the BARK PBBS...

72/73, Keith, WB2VU0, 100% QRP from the Depths of the Great Bergen Swamp
President, Brockport Amateur Radio Klub & Tech Coordinator, ARRL WNY
Section

My night light runs more power than my Rig!!!

Replies - <mailto:wb2vuo@arrl.net>

SOME IDEAS ON THE G5RV

The G5RV multiband antenna is a very popular design on the HF bands. The "common" G5RV is configured as a 3/2-wave dipole on 20 meters, and works as either a shortened dipole, or a collinear-fed long wire on the other bands. In this configuration, the overall length is 102 ft, with a 28 to 34 ft matching line. In some cases, this is still too large to fit in one's yard, and not everyone can convince their neighbors to allow one to stretch the wire across property lines. In this case, a 1/2-size version, covering 7 to 28 MHz is useable. Conversely, some amateurs would like to have 1.8 MHz capability, and have the 204 ft length necessary for this array. I have dimensions included here for both the half-size, and double-size G5RV antennas.

Bands	1.8-28 MHz	3.5-28 MHz	7.0-28 MHz
=====			
Flat-top Length	204 ft	102 ft	51 ft
Matching lines			
=====			
Open wire	67.2 ft	33.7 ft	16.9 ft
Ladder line	62.4 ft	31.5 ft	15,6 ft
"TV" twin lead	56.8 ft	28.5 ft	14.3 ft

[All of the above-mentioned antennas will work on the 6 Meter band, sometimes without an ATU.]

Of the listed antennas above, the 7-28 MHz version was referred to in Louis, G5RV's article in the ARRL "ANTENNA COMPENDIUM" Volume 1, the 1.8 - 28 MHz version is in use at Evhan, WB2ELB's QTH, (with a single feedline, directly matched with the internal ATU in his Kenwood, and the 3.5-28 MHz version in use by more local hams than I can remember right now.

Just for reference, the "window"-type ladder line is available at most amateur dealers, over-the-counter, or mail-order, and the polycarbonate (Lucite) plastic for the spreaders for home-built open wire is available at any major plastic supplier at scrap prices here in Rochester.

If you have any questions on the G5RV, parts, reference books, Etc, drop me a line here on packet, Email to wb2vuo@juno.com or call on the phone, (716)494-1239...73,

Keith, WB2VUO

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<http://dl.www.juno.com/get/tagj>.

Date: Fri, 08 Jun 2001 22:54:55 -0500

From: David Gauding <david.gauding@bbs.galilei.com>

To: qrp-l@lehigh.edu

Subject: [99729] LZ2RS/QRP on 14.060 @ 0353Z

Message-ID: <5.1.0.14.0.20010608224850.020b1e30@bbs.galilei.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

LZ2RS/QRP on 14.060 @ 0353Z

Worked with 500mW on Argo 515 and St. Louis Express vertical.

Rumi is running a K2 to 2 ele. yagi at 5m on top of a seven story building. Got a 229 and gave out a 449. He went to 500mw later and got a 229 from me. I went to 4W later but forgot to write down my new report. Fun stuff for sure!

Rumi still on freq at 0356Z but very weak into midwest. Hearing a DL4VM/QRP calling CQ there as I type this.

Good luck,

de Dave, NF0R nf0r@slacc.com

Date: Fri, 08 Jun 2001 23:43:54 -0500
From: "Steve Yates, AA5TB" <aa5tb@arrl.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [99730] Re: LZ2RS/QRP on 14.060 @ 0353Z
Message-ID: <002f01c0f09e\$caf7a460\$5b703ed8@pavilion>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit

Hi Dave,

I worked Rumi for our second QSO last night on 14.060 MHz at 0358 Z. I sent him a 539 and I received a 559. I was using my ole MFJ-9020 at 4W, solar charged battery, and an inverted-vee dipole at an apex height of 20 feet.

Rumi evidently hangs out a lot on 14.060 MHz so should be an easy QRP to QRP DX QSO for just about anybody willing to listen for him at that time. Luckily for us he is an early riser :-)

73,
Steve Yates - AA5TB
Fort Worth, Texas
Grid Square: EM12gs
aa5tb@arrl.net
<http://www.geocities.com/aa5tb/>

----- Original Message -----

From: "David Gauding" <david.gauding@bbs.galilei.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Friday, June 08, 2001 10:54 PM
Subject: LZ2RS/QRP on 14.060 @ 0353Z

> LZ2RS/QRP on 14.060 @ 0353Z
>
> Worked with 500mW on Argo 515 and St. Louis Express vertical.
>
> Rumi is running a K2 to 2 ele. yagi at 5m on top of a seven story building.

> Got a 229 and gave out a 449. He went to 500mw later and got a
229 from me.
> I went to 4W later but forgot to write down my new report. Fun
stuff for sure!
>
> Rumi still on freq at 0356Z but very weak into midwest. Hearing
a DL4VM/QRP
> calling CQ there as I type this.
>
> Good luck,
>
>
>
> de Dave, NF0R nf0r@slacc.com
>

Date: Fri, 8 Jun 2001 21:56:00 -0700
From: "Glenn Maclean" <wa7spy@home.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [99731] MH101 VFO portion complete and ready to test
Message-ID: <000901c0f0a0\$7ade5a80\$11710c41@scrmnt1.ca.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I finally received my capacitors from Mouser. I was able to get the VFO
finished this evening. It is off to work tomorrow to test the VFO. One of
the Perks of working on corporate jet aircraft is access to a full blown
avionics lab with permission to use the test equipment. I will post pictures
as soon as I can figure out how to access my home page @home .com. If any
one out here could tell me hoe e-mail me privately.

Glenn WA7SPY

Date: Sat, 09 Jun 2001 00:18:48 -0500
From: David Gauding <david.gauding@bbs.galilei.com>
To: qrp-l@lehigh.edu
Subject: [99732] Re: LZ2RS/QRP on 14.060 @ 0353Z
Message-ID: <5.1.0.14.0.20010608235254.020b2b10@bbs.galilei.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

GM Steve,

Well done there, OM. Your a lot farther off from EU that I am.

I heard Rumi on several nights this week. Right on 14.060 and calling CQ at a manageable speed. Always excellent ears and very patient too.

Nice when the station at the other hand has the serious antenna,.i.e. two elements 15' above the top of a seven story building. Hello! Lends credence to our lowly dipole and vertical! <g>

GM30XX also seems to be a regular on 14.060 the past few weeks, usually 0600Z and onwards. George is always alert for a new G-QRP member number for his log. We worked on 6/4/01 but I needed 3W to even be heard that morning and finally went to 5W.

Steve, didn't we exchange some user notes W4NVK's "Super Gain Antenna for 40M" a couple of years ago? Or, maybe it was AA5TA!

TTUL

de Dave, NF0R nf0r@slacc.com

At 11:43 PM 6/8/01 -0500, you wrote:

>Hi Dave,

>

>I worked Rumi for our second QSO last night on 14.060 MHz at 0358

>Z. I sent him a 539 and I received a 559. I was using my ole

>MFJ-9020 at 4W, solar charged battery, and an inverted-vee dipole

>at an apex height of 20 feet.

>

>Rumi evidently hangs out a lot on 14.060 MHz so should be an easy

>QRP to QRP DX QSO for just about anybody willing to listen for

>him at that time. Luckily for us he is an early riser :-)

>

>73,

>Steve Yates - AA5TB

>Fort Worth, Texas

>Grid Square: EM12gs

>aa5tb@arrl.net

><http://www.geocities.com/aa5tb/>

>

>

>----- Original Message -----

>From: "David Gauding" <david.gauding@bbs.galilei.com>
>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
>Sent: Friday, June 08, 2001 10:54 PM
>Subject: LZ2RS/QRP on 14.060 @ 0353Z
>
>
> > LZ2RS/QRP on 14.060 @ 0353Z
> >
> > Worked with 500mW on Argo 515 and St. Louis Express vertical.
> >
> > Rumi is running a K2 to 2 ele. yagi at 5m on top of a seven
> story building.
> > Got a 229 and gave out a 449. He went to 500mw later and got a
> 229 from me.
> > I went to 4W later but forgot to write down my new report. Fun
> stuff for sure!
> >
> > Rumi still on freq at 0356Z but very weak into midwest. Hearing
> a DL4VM/QRP
> > calling CQ there as I type this.
> >
> > Good luck,
> >
> >
> >
> > de Dave, NF0R nf0r@slacc.com
> >

Date: Fri, 8 Jun 2001 23:18:22 -0700
From: "Kevin Nathan" <k7rx@qwest.net>
To: <qrp-1@lehigh.edu>
Subject: [99733] Vertical Antenna Advice
Message-ID: <001801c0f0ab\$fd880e80\$1ddbfea9@qwest.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi All,

I've been off the list for a bit while we complete our move to the Seattle area but am coming back on because we are about to move into our permanent address here and I need some antenna wisdom.

Here are the circumstances. I do not have the funds at this point in my life for a tower, beam and the type of setup I would like to ultimately own. So, I am going to have to look at a lesser installation. I was all set to just put my 36 foot Radio Shack mast back on my roof and guy it as I had done in Boise and then suspend my B&W BWD1.8-30 from it similar to what I had previously. However, in talking to my xyl, she does not care for the visual clutter of the mast and all its guy wires on top of her home. Being totally blind, I don't understand this visual objection but feel I need to honor it. One option is to make sure I have space in the back yard and the small grove of evergreens on our property, plant a utility pole and hoist the B&W on that. Another is to go with one or more multiband verticals. Here is where I would like to tap the collective wisdom of this group.

first, I know all the downfalls of verticals in terms of low radiation resistance, high ground losses and the need for tons of radials and the like. However, I keep reading information on vertical dipole arrays made by Gap, Force 12 and others who claim no radials other than what are permanently attached to the antenna are needed. Can those on this list who have used such arrays or who know someone who has please comment on their effectiveness? How do they typically compare to dipoles on the same bands of operation? Are the claims of efficiency made by the manufacturers valid or so much hot air? Of particular interest to me are the Gap Titan and the Force 12 antennas. Also, how about other mainline vertical manufacturers such as Cushcraft and Batternut?

I am really in a quandry here and can use all constructive suggestions and information I can get. Thanks to all who give me feedback and 72 to everyone on the list. It's good to be back.

Kevin, K7RX

Date: Sat, 9 Jun 2001 02:33:58 EDT
From: PTSMANTUA@aol.com
To: k7rx@qwest.net, qrp-1@lehigh.edu
Subject: [99734] Re: Vertical Antenna Advice
Message-ID: <49.c55b327.28531d56@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Kevin,

I am sure everyone who has a preference will respond in favor of their favored antenna.

My situation here was a bunch of antenna's for a bunch of bands, until the

xyl hooked one during an ice storm with the family van and drove away with it.

After that episode, we talked, and she was tired of the ugly things, and wanted to still support my interests, so we settled on a multiband verticle. One antenna, many options.

I chose the Gap Titan DX, based on a couple of long QSO's with Chris , VK5CC, and others who were using Gap products, and liked them.

As mentioned at the top, I am sure others will support their favorite, but considering hour long Q's on 40 into VK land (with 500W) and abt 40 Q's during the CQ WW CW Test running 1W, not working hard or long, It provides a reasonable performance, capable of allowing me to enjoy Amatuer Radio whist keeping the peace.

40 and 80 are very good, thru 10 is good, and it loads on 2m, go figure.

GL de Phil

KF8JW

Date: Sat, 9 Jun 2001 05:52:54 -0400 (EDT)
From: Bill Lazure <n2tpa@juno.com>
To: qrp-l@lehigh.edu
Subject: [99735] Is QRP-L OK?
Message-ID: <381550732.992080374606.JavaMail.root@web193-wra>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang,

I haven't received anything from QRP-L in more than 24 hours. Is everything OK?

73,

Bill
W2EB

Date: Sat, 9 Jun 2001 06:01:12 -0400 (EDT)
From: Bill Lazure <n2tpa@juno.com>

To: qrp-1@lehigh.edu
Subject: [99736] subscribe qrp-1 Bill Lazure W2EB
Message-ID: <390557388.992080872625.JavaMail.root@web641-wra.mail.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Date: Sat, 9 Jun 2001 12:39:52 +0200
From: "Ingo DK3RED" <dk3red@t-online.de>
To: <n2tpa@juno.com>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [99737] Re: Is QRP-L OK?
Message-ID: <007b01c0f0d0\$a5cb45c0\$04ae01d9@ingo>

Hello Bill,

> I haven't received anything from QRP-L in more than 24 hours. Is everything OK?

NO! Please check your email program. If there are QRP-L on the list of blocking senders. Is it ok so write to the owner of QRP-L.

72 de Ingo, DK3RED

E-Mail: dk3red@qsl.net - Homepage: www.qsl.net/dk3red

Date: Sat, 9 Jun 2001 06:42:37 EDT
From: K2YEW@aol.com
To: qrp-1@lehigh.edu
Subject: [99738] SUBSCRIBE QRP-L
Message-ID: <9b.16405670.2853579d@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Date: Sat, 9 Jun 2001 06:03:49 -0500
From: "Terry Bassett" <mutabut@net66.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [99739] Re: Verticle Antenna Advice
Message-ID: <001d01c0f0d3\$dd662b00\$0101a8c0@pavilion>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello Kevin,

I also started out with a collection of dipoles bedecking every available tall object near the house. Upon consultation with the manager of the Office of Decorum and Order (xyl), a GAP Titan was purchased. It has done just fine mounted just high enough to walk under.

Any time the subject of antennas comes up many personal feelings will get aired. I just want to say that you can work the world with a GAP Titan. It will probably meet you needs as far as the Office of Decorum and Order also.

Best of luck with whatever you choose

73

Terry KA9TXE

Date: Sat, 09 Jun 2001 04:27:18 -0700
From: Phil Wheeler <w7ox@earthlink.net>
To: mutabut@net66.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [99740] Re: Vertical Antenna Advice
Message-ID: <3B220816.AF91EBB7@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Terry Bassett wrote:

>
> Hello Kevin,
>
> I also started out with a collection of dipoles bedecking every

> available tall object near the house. Upon consultation with the
> manager of the Office of Decorum and Order (xyl), a GAP Titan was
> purchased. It has done just fine mounted just high enough to walk
> under.
> Any time the subject of antennas comes up many personal feelings
> will get aired. I just want to say that you can work the world with a
> GAP Titan. It will probably meet your needs as far as the Office of
> Decorum and Order also.
>

Terry,

Experiences with GAP Titan's have been mixed. Some swear by them and
some swear at them.

I put one up in 1995, mounted on a post in the backyard, just high
enough to make the lower square "ring" unreachable. After a month of
trying to make it work (poor SWR on some bands, consistently poorer
reports than my other non-gain antennas .. e.g., G5RV), I took it down
and sold it. I had a time constraint, based on upcoming surgery and
rehabilitation; so it was take it down before it corroded (one mile from
ocean) or keep it.

In retrospect, I think the problem was in its location. Too many other
vertical metal objects (e.g., masts, VHF/UHF antennas) nearby it. Doing
it again, I would move it to the back of my property line (but that
would require removal of a tree and close proximity to power lines)

But now I have a 3 El beam for 10-15-20, the G5RV (80 mostly), a 30
meter dipole, and a rotating dipole for 40, so all is OK.

73, Phil W7OX

Date: Sat, 9 Jun 2001 07:30:30 -0500
From: "Rick Austin" <rick@ltcable.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [99741] Re: Vertical Antenna Advice
Message-ID: <002501c0f0df\$fa300c40\$0201a8c0@ricksnote>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> After that episode, we talked, and she was tired of the ugly things, and
> wanted to still support my interests, so we settled on a multiband

verticle.

> One antenna, many options.

>

My site is so rocky that a "ground" ground plane is out of the question. I could not even sink a ground rod more than 12" without getting a well drilling rig out here. (Recently, I extended a sprinkler line by 15 feet -- an all day job and then I had to haul away the many buckets of rocks that I harvested. One rock was the size of a six cylinder engine block. I eventually levered it out of the ground and onto skids, dragged it with a block and tackle connected to some convenient trees and the hitch on my car to a new location some eight feet away where it is now part of our landscaping.)

Sooo, what do you think of an elevated vertical with air radials but no ground whatsoever?

The neighborhood has restrictions so I thought a nice gazebo with center "flagpole" and radials coming down the sloped roof might pass muster. But will it work?

Rick Austin in Austin

KD5LAQ

Date: Sat, 9 Jun 2001 08:58:11 -0400

From: "Brian B. Riley, N1BQ" <n1bq@wulfden.org>

To: <mutabut@net66.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [99742] RE: Verticle Antenna Advice

Message-ID: <LPBBJAGIPFHKPJENAKLOKEEMEOAA.n1bq@wulfden.org>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

> -----Original Message-----

> From: Terry Bassett

> Sent: Saturday, June 09, 2001 7:04 AM

> To: Low Power Amateur Radio Discussion

> Subject: Re: Verticle Antenna Advice

> I also started out with a collection of dipoles bedecking every
> available tall object near the house. Upon consultation with the
> manager of the Office of Decorum and Order (xyl) ...

Far too complex of a term ... I prefer the Rumpole Definition ...
"she, who must be obeyed" ... far simpler to grasp!!!!

Date: Sat, 09 Jun 2001 06:07:09 -0700
From: Phil Wheeler <w7ox@earthlink.net>
To: n1bq@wulfdan.org, QRP List <qrp-l@lehigh.edu>
Subject: [99743] Re: Verticle Antenna Advice
Message-ID: <3B221F7D.C467403D@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Or in xyl speak: "Don't think about it; just say "yes, Dear".

Phil W7OX

"Brian B. Riley, N1BQ" wrote:

>
> > -----Original Message-----
> > From: Terry Bassett
> > Sent: Saturday, June 09, 2001 7:04 AM
> > To: Low Power Amateur Radio Discussion
> > Subject: Re: Verticle Antenna Advice
>
> > I also started out with a collection of dipoles bedecking every
> > available tall object near the house. Upon consultation with the
> > manager of the Office of Decorum and Order (xyl) ...
>
> Far too complex of a term ... I prefer the Rumpole Definition ...
> "she, who must be obeyed" ... far simpler to grasp!!!!

Date: Sat, 9 Jun 2001 13:14:25 -0000
From: "Ed Juge/NM" <ed_juge@zianet.com>
To: <rick@ltcable.com>, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [99744] Re: Vertical Antenna Advice
Message-ID: <008301c0f0e7\$378c3120\$0200a8c0@inspiron4000>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Rick...

It sounds like you have found at least one solution in the gazebo.

It's not necessary to bury the radials deep... just enough to get 'em out of the way. If your yard has grass, you can also plant the radials on top of the ground, securing them with wire "staples" and let the grass cover them up. Probably won't take more than a month or so.

I've been using an old Hy-Gain Hy-Tower... a 50' tall, all-band vertical (WARC bands need a tuner), which--to answer the initial question-- also happens to be my choice in verticals. It functions as a 1/4-wavelength, or odd multiple thereof, on pre-WARC bands. No traps and pretty efficient. It claims 2db gain on 10 and 15 meters. In very simplistic terms, longer and resonant is usually better. Available sometimes on the used market. Rumor has it MFJ, who bought Hy-Gain, will re-introduce 'em.

My ground is also rocky. Initially, I dug a small trench... about 6" at a time, 1-2" deep, for each radial. Each radial took about 30 minutes to bury.

We live in the mountains where many summers we run somewhat short on rain and the Village imposes watering restrictions. Unless you have a private well, it's kind'a pointless to try to grow a yard up here. We finally decided, this year, to put rock all over our yard to eliminate the need for water and mowing.

I installed a second Hy-Tower (which will eventually be phased with the first one) and put 48, 48' radials at the base of each. I just "nailed" them to the ground and let the landscape crew put their plastic and rock on top of 'em. Works great. That's another possible solution.

Good luck!!

73... Ed, W5EJ

----- Original Message -----

From: "Rick Austin" <rick@ltcable.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Saturday, June 09, 2001 12:30 PM

Subject: Re: Vertical Antenna Advice

>

> > After that episode, we talked, and she was tired of the ugly things, and

> > wanted to still support my interests, so we settled on a multiband
> verticle.
> > One antenna, many options.
> >
>
> My site is so rocky that a "ground" ground plane is out of the question. I
> could not even sink a ground rod more than 12" without getting a well
> drilling rig out here. (Recently, I extended a sprinkler line by 15
feet --
> an all day job and then I had to haul away the many buckets of rocks that
I
> harvested. One rock was the size of a six cylinder engine block. I
> eventually levered it out of the ground and onto skids, dragged it with a
> block and tackle connected to some convenient trees and the hitch on my
car
> to a new location some eight feet away where it is now part of our
> landscaping.)
>
> Sooo, what do you think of an elevated vertical with air radials but no
> ground whatsoever?
>
> The neighborhood has restrictions so I thought a nice gazebo with center
> "flagpole" and radials coming down the sloped roof might pass muster. But
> will it work?
>
> Rick Austin in Austin
> KD5LAQ
>
>
>
>

Date: Sat, 9 Jun 2001 09:37:25 -0400
From: <brownh@hartford-hwp.com>
To: rick@ltcable.com
Cc: qrp-1@Lehigh.EDU
Subject: [99745] Re: Source of Solid Enameled Wire
Message-ID: <200106091337.f59DbPp17518@hartford-hwp.com>

If I may append to the question, I've wondered about the difference
between magnet wire and soft enameled wire. Would someone enlighten me
about the electrical and mechanical differences?

--

Haines Brown
brownh@hartford-hwp.com
www.hartford-hwp.com
KB1GRM

Date: Sat, 9 Jun 2001 09:37:49 -0400
From: "Gary Powell\"(n4dl_qrp\)" <n4dl_qrp@worldnet.att.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [99746] Operation from St. Pete Beach and Treasure Island Florida
(NA-034)
Message-ID: <000d01c0f0e9\$60b206e0\$6d1b4e0c@garys>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I plan to be active from Treasure Island Florida on Tuesday June 12, from
1300z to 1700z at or near 14,055 plus/minus qrm. I will be running 5 watts
to a sand mounted vertical. CW only.

Although not an IOTA island, I will also be active from St. Pete Beach on
Monday, June 11, same hours/freq.

Pls QSL via buro or direct to
Gary Powell, N4DL
1108 Devonshire Lane
Lakeland, Fl 33813
USA

Gary, N4DL

Date: Sat, 09 Jun 2001 06:54:21 -0700
From: Louis Hlousek <lhlousek@nvbell.net>
To: k7rx@qwest.net, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [99747] Re: Vertical Antenna Advice
Message-ID: <047001c0f0eb\$af421be0\$650dfea9@0016297931>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit

There is a review of the GAP Challenger in the January 95 issue of QST.
The review is available on the ARRL website (if you are a member).

Lou W7DZN

Date: Sat, 9 Jun 2001 10:02:35 -0400
From: "Walt Amos K8CV" <k8cv@netzero.net>
To: <qrp-1@lehigh.edu>
Subject: [99748] Yes, but Juno sure isn't Fw: Is QRP-L OK?
Message-ID: <002e01c0f0ec\$d6b04c00\$919d9840@waltamos>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Folks:

Seems like juno got bought out by NETZERO

Go to

<http://www.netzero.net>

and sign up for there free e-mail and send qrp-1 an unsubscribe message for juno

Walt k8cv in Royal Oak, Mi.

-----Original Message-----

From: Bill Lazure <n2tpa@juno.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: Saturday, June 09, 2001 5:54 AM
Subject: Is QRP-L OK?

>Gang,

>

> I haven't received anything from QRP-L in more than 24 hours. Is everything OK?

>

>73,

>

>Bill

>W2EB

>

>

>

NetZero Platinum
No Banner Ads and Unlimited Access
Sign Up Today - Only \$9.95 per month!
<http://www.netzero.net>

Date: Sat, 9 Jun 2001 10:27:02 -0400
From: "JOSEPH PIRKLE" <ad4ih@worldnet.att.net>
To: <k8cv@netzero.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [99749] Re: Yes, but Juno sure isn't Fw: Is QRP-L OK?
Message-ID: <002001c0f0f0\$4372fb00\$78904d0c@pavilion>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

fyi

<<snip>>

> Earlier today, it was announced that NetZero and Juno Online
> Services have agreed to a strategic merger. Together we will
> form a new company, United Online, Inc. This exciting merger
> will bring together the two clear leaders in the free and value
> priced Internet access markets to form the second largest
<<snip>>

It would appear NetZero just got the dreaded Juno Virus!

Joe, AD4IH
Recovering Juno Addict

----- Original Message -----

From: "Walt Amos K8CV" <k8cv@netzero.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Saturday, June 09, 2001 10:02 AM
Subject: Yes, but Juno sure isn't Fw: Is QRP-L OK?

> Folks:
>
> Seems like juno got bought out by NETZERO
>
> Go to
>
> <http://www.netzero.net>
>

> and sign up for there free e-mail and send qrp-l an unsubscribe message
for
> juno
>
> Walt k8cv in Royal Oak, Mi.
>

Date: Sat, 09 Jun 2001 14:53:12 +0100
From: Larry Cahoon <lejek@erols.com>
To: ad4ih@worldnet.att.net, "Low Power Amateur Radio Discussion" <qrp-
l@lehigh.edu>
Subject: [99750] Re: Yes, but Juno sure isn't Fw: Is QRP-L OK?
Message-ID: <5.0.2.1.0.20010609145007.00a19500@pop.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

>
>It would appear NetZero just got the dreaded Juno Virus!
>
>Joe, AD4IH
>Recovering Juno Addict

My PC crashes a lot less often now that I have given up on Juno. Seems
like they always wanted to make me pick a new set of phone numbers - then
I'd go through a week or so of major crashes until everything settled again.

73 de Larry.....WD3P in MD
<http://www.qsl.net/wd3p/>

Date: 9 Jun 2001 10:05:20 EST
From: Michael Goins <mgoins@usa.net>
To: qrp-l@lehigh.edu
Subject: [99751] Looking for Ed Manuel
Message-ID: <20010609150520.28969.qmail@aw161.netaddress.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable

WOuld like to talk a moment about the 817. Thinking seriously about getti=
ng

one.
mike
wb5yjx

Get free email and a permanent address at <http://www.amexmail.com/?A=3D1>

Date: Sat, 9 Jun 2001 09:15:58 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@neale.gpfn.sk.ca>, Low Power Group <qrp-l@LeHigh.EDU>
Subject: [99752] Fox - Summer Teams -
Message-ID: <Pine.LNX.4.33.0106090914320.17781-100000@neale.gpfn.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

....anymore Teams please?

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
K2#2032 A-1 Operator Club - 10/10# 944 - SOC #11 & #12 - Whiner#10 -
"QRP! How sweet it is!" oo#148 "I am da man wit "DAH" paddle!"

The Big Dawgs -	The Raiders of the Lost RF -
Marshall - N1FN	Earl - VA6RF
Tom - N5TW	Dan - VE6EX
Al - K0FRP	Rob - VE6JAZ
Bob - N6WG	Fred - VE3FAL
Larry - N2WW	Bruce - VE5RC

The Cajun Thunder -
Wayne - K5EOA
Tom - AC5JH
John - K5JS
Jim - N5IB
and one more

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
K2#2032 A-1 Operator Club - 10/10# 944 - SOC #11 & #12 - Whiner#10 -
"QRP! How sweet it is!" oo#148 "I am da man wit "DAH" paddle!"

Date: Sat, 9 Jun 2001 11:17:35 EDT
From: K5BDZ@aol.com
To: mgoins@usa.net, qrp-1@lehigh.edu
Subject: [99753] Re: Looking for Ed Manuel
Message-ID: <de.15d47d1c.2853980f@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Houston is under water today (saturday) and the 28" rainfall - past 24 hours - has shut this place down. Telephones are overloaded with busy circuits (ineffective!) and cell phone systems are down... those remaining are obviously overloaded.

Roads impassable - some under 12 feet of water.

If Ed didn't go to Dallas Hamcomm already, it's likely he won't get your message until probably Monday.

Bill K5BDZ in Tomball (just north of Houston) and flooded in.

Date: Sat, 9 Jun 2001 11:18:31 -0400
From: "George Heron N2APB" <n2apb@erols.com>
To: <k7rx@qwest.net>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [99754] Re: Vertical Antenna Advice
Message-ID: <005201c0f0f7\$7306fcc0\$45c73ad0@ghlpt4>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Kevin -

Like most others, I enjoy using my GAP Titan (multiband vertical with elevated counterpoise). But like you, I had to work around some neighborhood covenants.

I worked up a hanged, tip-over base for the Titan which allows me keep it in the tipped over position about 2-feet off the ground when not in use. When I want to operate I walk out to the back yard, pivot it it up to the upright position and pin the base pipe in place.

I sunk two 2" pipes in concrete, separated by the width of a third pipe (5-feet) which is pinned in between the two sunken pipes. A second hole

goes through all three pipes about a foot up from the hinged point and I slide a screwdriver through this top set of holes when the base pipe is in the "up" position. The Titan is strapped to this base pipe. And of course, I slip the counterpoise cross members out of their bracket before lowering the antenna and lay the counterpoise wire alongside the lowered antenna.

It only takes me perhaps 3 minutes to raise or lower the antenna, so it's pretty ideal for my situation. Since I operate mostly at night, the neighbors hardly even notice when I'm active. And in the few instances of operating in daylight (weekends, holidays, etc.), they see me religiously bring it down when I'm done so they feel good that I'm conscious of the neighborhood esthetics. (Of course it always pays to be a "nice guy" in the neighborhood to help advance one's own personal causes ;-)

BTW, I chronicled my tip-over base in an article in issue #3 of QRP Homebrewer (http://www.njqrp.org/data/qrp_homebrewer.html)

Hope this has given you a few ideas!

73, George N2APB
n2apb@amsat.org

Date: Sat, 09 Jun 2001 11:39:00 -0400
From: "Phil (VA3UX)" <phil@vaxxine.com>
To: qrp-l@Lehigh.EDU
Subject: [99755] TEST #2
Message-ID: <5.0.2.1.0.20010609113837.009f3220@vaxxine.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

just a test

Date: Sat, 09 Jun 2001 09:25:50 -0700
From: Bob Welch <p326@earthlink.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [99756] Sale/trade
Message-ID: <3B224E0E.FAEB0A44@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Have as new (purchased March 01 still under warranty) a MFJ Menu driven memory keyer MODEL MFJ-492 and power supply model Mfj-1312b . See mfj web page for a full description at:

<http://www.mfjenterprises.com/products.php?prodid=MFJ-492>

Works great, have new rig with keyer included so will sell this equipment for \$80 which includes shipping in CONUS.

Or will take in trade a Emtech ZM-2 ATU that is built and working properly and give a \$50 credit leaving you a balance of only \$30.

Please reply direct
Thanks , Bob W8MCJ

Date: Sat, 9 Jun 2001 12:45:40 EDT
From: Rusticartist@aol.com
To: qrp-l@lehigh.edu
Subject: [99757] FS or Swap HTX-100
Message-ID: <6c.b698c63.2853acb4@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

I have a Radio Shack HTX-100 10 meter cw/ssb radio that is surplus to my needs. Works FB and comes with original mike (with up/down frequency control), mounting bracket/hardware, power cable and a copy of the manual. 5/25 watt output. It is in good condition and the only flaw I could find with it is that the volume control pot should be cleaned. It works fine but I think it is noisy.

Will sell for \$85 shipped con us or trade for a MFJ 418 code tutor or 20 meter qrp rig.

Thanks.....Jerry kg2jf

Date: Sat, 9 Jun 2001 12:22:50 +0000
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: qrp-l@lehigh.edu
Subject: [99758] Maine AT alert

Message-ID: <200106091654.f59GspC21012@wolf.ncia.net>

MIME-Version: 1.0

Content-type: text/plain; charset=US-ASCII

Content-transfer-encoding: 7BIT

Hi Gang,

Nice Wx up here in the NE for a change, so heading for the shelter on Baldpate Mt on the Maine AT. Plane to be set up and on the air by 6-7 pm edt and operate until 9 or so. Maybe I woun't be distracted by a cute YL this time, hi. (though we can hope!)

BTW, bunch of people out operating on the AT this afternoon, so if it's too hot or wet to go outside where you are, give a listen!

72,

Steve, KD1JV in the White Mountains of New Hampshire

"Melt Solder"

<http://www.poniatowski.com/kd1jv/kd1jv.htm>

<http://www.qsl.net/kd1jv/index.html>

Date: Sat, 09 Jun 2001 12:56:59 -0400

From: Kenneth Hoglund <hoglund@wfu.edu>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [99759] Thanks

Message-ID: <3B22555A.FF94B3BD@wfu.edu>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Some changes around the qth now that I have successfully passed (as of this am) my General exam. Need to find room for some more equipment!

Many thanks to all on the list for their helpful comments to odd questions, and for the ability to explain convoluted (to my mind) electronics theory in simple form without making the reader feel dumb. Most of the success on the exam I attribute to you all and your high level of interaction.

73 all around,

Ken KG4FGC

Date: Sat, 09 Jun 2001 12:59:14 -0400
From: Steve Elkind <selkind@cyburban.com>
To: qrp-l@Lehigh.EDU
Subject: [99760] Re: [MH101] K8IQY pics, K7Q0 patented IC pad maker, etc.
Message-ID: <3B2255E2.334C7A03@cyburban.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

On the hole punch being retired by Harbor Freight - there appears to be an alternate source.

I ordered something similar from Grizzly Industrial, mostly because I was being cheap that day and they were charging \$5 less for shipping and handling than Harbor Freight.

It seems to be similiary in operation and results to the Harbor Freight model described in the Manhattan articles I've read. I haven't used it for real yet, just puched a few pieces out. Like the Harbor Freight model, it will need the spike at the center of the punch filed down before I can use it for real.

Their web site is <http://www.grizzly.com>

The model number is G8780, "Hand punch - portable, 1 Ton," and comes with dies for 3/32", 1/8", 5/32", 3/16", 7/32", 1/4", and 9/32", in a molded plastic case.

My total with shipping to NY was \$25.45, and they threw in a small brass caliper in a free promotion.

/Steve Elkind KE2YU

Date: Sat, 9 Jun 2001 18:18:59 -0400
From: Ed Lawson <elawson@lawson-philpot.com>
To: qrp-l@lehigh.edu
Subject: [99761] NH AT Trail Alert for Sunday
Message-ID: <20010609181859.B6423@work1>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1

Jim (W1PID) and I (K1VP) will be operating on the AT in NH this Sunday.

Location has yet to be determined, but the bugs and WX look OK so far. Expect to be in White Mountains region.

Time will be between 2PM and 3:30PM EDT 1800Z to 1930Z.
If things are going well we may be on longer and we may start a bit earlier, but we will be on during the listed times.

Will work 15M, 20M, and 40M with emphasis on 20 and 40.
Can work 30 and 10 if anyone has an interest.
Will be on or very near regular QRP freq.

Hope to hear you and hope you hear us. Should be fun.
Jim and I will try to have an AT operation in ME and VT before summer ends.

Ed Lawson
K1VP

Date: Sat, 09 Jun 2001 13:12:38 -0400 (EDT)
From: "John L. Sielke" <w2agn@pobox.com>
To: "Phil (VA3UX)" <phil@vaxxine.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [99762] RE: TEST #2
Message-ID: <XFMail.20010609131238.w2agn@pobox.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
MIME-Version: 1.0

If you pass, you automatically get HF privileges.

-----Original message follows-----
just a test

Date: Sat, 9 Jun 2001 13:22:39 -0400
From: "George Heron N2APB" <n2apb@erols.com>
To: "NJQRP" <NJQRP@njqrp.org>, "QRP-L" <qrp-l@lehigh.edu>
Subject: [99763] Build a kit for someone?
Message-ID: <00b701c0f10b\$1a2a2dc0\$45c73ad0@ghlpt4>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

We've been receiving a number of requests from hams asking if we know of anyone who would build a Warbler (or other kits) for them. In some cases they are near-blind, or have difficulty holding small parts, etc.

Although it probably won't make you rich, these guys probably intend on paying for the service.

If interested in helping along these lines, please send me your name and mailing address so I can forward it to the guys asking for this assembly service.

73, George N2APB
n2apb@amsat.org
for the NJQRP Club at <http://www.njqrp.org>

Date: Sat, 09 Jun 2001 17:53:47 +0000
From: Goran Hosinsky <hosinsky@jet.es>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [99764] Battery changing/charging shedule
Message-ID: <3B2262AB.420960F7@jet.es>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Some batteries are apt to get old/discharged with sometimes disastrous results, like the battery in my old VOM. I want to make a schedule for changing / charging batteries but I am unsure of what type of exchange/charge frequency to use and I would appreciate input from the list.

There are two possible cases:

- 1) Seldom used batteries, change or charge to avoid damage to equipment or battery
- 2) Batteries that should be kept fully charged in emergency equipment etc.

Battery types:

- a) zinc-carbon (Sic, I have not been able to find 3V alkaline
(for my VOM)
- b) Alkaline batteries
- c) Nicad
- d) NiMH
- e) Gel cell battery (the K2)
- f) Lead acid (car battery)

Thanks for your help!

73

Goran ea8yu hosinsky@jet.es
Isla de La Palma
Canary Islands

Date: Sat, 09 Jun 2001 13:51:58 -0400
From: Dave Fouchey <dafouchey@home.com>
To: n1bq@wulfden.org, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [99765] RE: Verticle Antenna Advice
Message-ID: <4.1.20010609134734.00984ef0@mail>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 08:58 AM 6/9/2001 -0400, Brian B. Riley, N1BQ wrote:

>

>

>> -----Original Message-----

>> From: Terry Bassett

>> Sent: Saturday, June 09, 2001 7:04 AM

>> To: Low Power Amateur Radio Discussion

>> Subject: Re: Verticle Antenna Advice

>

>

>> I also started out with a collection of dipoles bedecking every
>> available tall object near the house. Upon consultation with the
>> manager of the Office of Decorum and Order (xyl) ...

>

> Far too complex of a term ... I prefer the Rumpole Definition ...

>"she, who must be obeyed" ... far simpler to grasp!!!!

Or the newer "Politically Correct" Term Domestic Goddess...

For some reason she took umbrage at being referred to as The War Department...go figure.

As for Verticals in my humble experience it has boiled down to location, location, location. A simple vertical over a near infinite ground plane is hard to beat for a general purpose DX grabber. With a poor ground system it makes a dandy worm warmer/dummy load. that said I haven't tried any of the newer ones such as the Gap so I will defer comment on them until I get the chance.

Dave
WA4EMR/8

Date: Sat, 9 Jun 2001 14:13:19 EDT
From: RangerSF5@aol.com
To: qrp-L@lehigh.edu
Cc: antennas@qth.net
Subject: [99766] Pays to explain to the right person
Message-ID: <81.bc1d7de.2853c13f@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi Gang,
I had to move to a new QTH and the lease said NO ANTENNAS
The fine print said without written permission.
I told the Girl that manages the place that many times ham radio is looked at as CB.
I showed her my MARS and HAM ticket.
She said just try to keep a low profile.
I'm on the top (4th floor) and did well with a window antenna working ZW5B during the contest but it still wasn't what i
I was used to and that's a lot of wire.
I have a 1/4 wave on the roof for 2 meters and I can get repeaters on the coast south east of me with no problem.
Now my wire antenna is now 55 feet going up 10 feet off the roof and then makes a 30* turn to the right for another 145 feet.
Last night I heard a W9 (station signing off with a VK3 on 20-Meters.(10 OVER S-9)
I just added another 65 feet that goes about the same 30* turn but to the left.
The Girl gave me the key to the roof and just told me to use the steps that

go over the all the duct work.

Never under estimate the power of a woman,(a small gift helps)

She already got me enough A/C & refrigeration work and my rent is paid for the month.

When others had asked her about what I was doing on the roof she just showed them my copy of my FCC ticket.

I know some places if you're seen on the roof you're shot on site and I'm happy to say that because this building is almost all steel my QRM is about an S-3 average and at times the needle sits still and I hear nothing but atmospheric clashing.

I looked to see if the connection to the coax broke.

So far at 30 watts I see no TVI on my set and no one is complaining.

Now for a question.

I have a collinear antenna and the hang over on the roof is steel.

What kind of performance will I get If I smack the mag mount to it and hang it up side down?

QUESTION # 2

I'm feeding this long wire with 15 feet of coax just to keep the RF out of the shack.

Will a counter poise help this antenna perform better?

Many thanks and remember it never hurts to ask.

Bob

WA2HOQrp <tm>

Date: Sat, 09 Jun 2001 12:45:35 -0600

From: "Conant, Paul" <paul.conant@lmco.com>

To: "Qrp-L (Post To List) (E-mail)" <qrp-l@lehigh.edu>

Subject: [99767] QRP Forum @ HamCom2001

Message-ID: <675067CF647BD4118DEA00508BE32AB47EABEB@emss02m09.ems.lmco.com>

Content-return: allowed

MIME-version: 1.0

Content-type: text/plain; charset=iso-8859-1

Content-transfer-encoding: 7BIT

I attended the QRP Forum at HamCom this morning. Joe Spencer organized a great program. There were three presentations. Joe gave a talk on the world wide beacon system and demonstrated related shareware. This was followed by Stuart Rohre's presentation on several years of experience with various configurations of antennas on Field Day. He addressed results with vee beams, extended double zepps in inverted-vee set-up (IEDZ), and finally with large loops at various elevations. I do not remember the name of the final presenter, but he demonstrated alignment of K2 filters using Spectrogram shareware. All presentations were well done, informative, and fun.

I saw K2's, K1's, an FT-817 and SG-2020 all for the first time. The neat

little Te Ne keys were available at the QRP ARCI booth. And I saw Vibroplex's new Code Mite straight key that was introduced at Dayton. Ran across a TenTec Century 21 in the flea market. I had one of these as my first rig. Lots of fond memories of that rig. But all I bought was an R-X Noise Bridge to take the guess work out of correcting my 3:1 SWR.

The QRP Building Contest is at 7:00 this evening. I'll just be a spectator. Thanks to everyone involved in making the QRP program at HamCom a success.
72,

Paul, WQ5X

Date: Sat, 9 Jun 2001 14:54:56 -0400 (EDT)
From: Doug Faunt N6TQS +1-510-655-8604 <faunt@panix.com>
To: ed.kwik@delphiauto.com
Cc: qrp-l@Lehigh.EDU
Subject: [99768] Re: [99689] Summary FD Laptop power suggestions
Message-ID: <200106091854.0AA26976@panix6.panix.com>

Hmm, no one mentioned N4UAU's voltage booster project/kit which is perfect for this sort of thing.
Try <http://n4uautoo.home.sprynet.com/>

73, doug

Date: Fri, 8 Jun 2001 10:15:49 -0400
From: ed.kwik@delphiauto.com
Content-type: text/plain; charset=us-ascii
Content-Disposition: inline

Thanks everyone who gave me advice. Most suggested I get a DC to AC inverter and run the laptop off of that. That's the way I am going to go since I need to have one of these things around anyhow. Put one on my Fathers day list. Other suggestions included; DC to DC step up converter to get the 12VDC to 20 VDC, paralleling two of the 12VDC batteries together to get 24VDC and then into a regulator circuit for the 20VDC, getting an accessory for the laptop designed to run my Thinkpad from auto power.
AB8DF Ed Kwik

Date: Sat, 9 Jun 2001 15:02:40 -0400 (EDT)
From: Doug Faunt N6TQS +1-510-655-8604 <faunt@panix.com>
To: lejek@erols.com
Cc: qrp-1@lehigh.edu
Subject: [99769] Re: [99713] Re: OT: Save BBC Coalition
Message-ID: <200106091902.PAA27588@panix6.panix.com>

Keep in mind that the BBC sells some of their programs overseas, so it's not as if no one outside of the UK contributes. Your local PBS station is likely to do this, in particular.

That said, I would cheerfully be willing to pay for a license, since I'm a big fan of the BBC radio productions, both international and domestic. I have many tapes and/or files of drama from BBC R4, and listen to "The Archers" regularly. All of this is done on low power radios or computers, for the obligatory QRP connection.

73, doug

Date: Fri, 08 Jun 2001 20:47:09 +0100
From: Larry Cahoon <lejek@erols.com>

At 10:03 AM 06/08/01 -0700, laura halliday wrote:
>While U.K. TV licence fees do in fact fund domestic
>BBC radio and television services, they do *not* fund
>the World Service. This is paid for by the Foreign and
>Commonwealth Office. Have a look at their web page.

This just points up the fact that governments will find a way to tax you somehow to provide the services(?) they decide you need/want. I still thank our friends in G-Land for paying a tax to give those of us on this side of the pond the services of the BBC all these years. It really doesn't matter that they don't pay for it as part of the TV tax, they still pay for it.

We see this kind of thing down here all the time between the states. VA taxes you on your car each year, MD does not. Residents of VA fuss about the "car tax." But in the end MD just finds a different way to collect it's taxes. It all comes to the same thing. A smart politician finds a way to tax you that you don't notice. A smart taxpayer finds a tax he can make unpopular or a program he can get rid up.

73 de Larry.....WD3P in MD
<http://www.qsl.net/wd3p/>

Date: Sat, 9 Jun 2001 14:48:12 -0500
From: "Dennis Payton" <dpayton@fwi.com>
To: <qrp-l@Lehigh.EDU>
Subject: [99770] "Preferred Building Method" Survey Results
Message-ID: <00cc01c0f11d\$1f617480\$aca854d1@locke>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Well, my "Preferred Building Method" survey didn't work out too well, with only 46 responses. I discovered my email server was down for about twelve hours right after I posted it though, so that could have played a part if some responses got bounced. I've used my minimal knowledge of polling to come to some conclusions.

First, the results:

- Manhattan Construction.....17
- Ugly/dead bug.....16
- Etched board.....6
- Perfboard.....4
- Kits.....2
- Dremel preparation.....1

(Two people said half Manhattan and half Ugly)

With 46 responses, the margin of error calculated to be +/- 14.7%. So I concluded:

- 32-42% of all QRP-L members prefer Manhattan construction
- 30-40% of all QRP-L members prefer Ugly/dead bug construction
- 11-15% of all QRP-L members prefer etching their own boards
- 8-10% of all QRP-L members prefer Perfboard construction
- 4-5% of all QRP-L members prefer kits
- 2% of all QRP-L members prefer Dremel preparation

Some observations:

- I don't think the survey question was inviting to kit builders. And to believe only 4-5% of QRP-L members prefer kits is surely unreasonable.
- I was awed by the response of someone in Australia. To quote him, "Most of my homebrew designs use a PCB which I have designed, but which has been manufactured commercially. For multilayered boards with surface mount components, there is almost no other way. I do however still use blank matrix board wherever that is possible and "dead-bug" over groundplane for

RF....." - I put him down for perfboard.

A comment:

I was sure hoping this survey would be a success. I'd already thought up another two-part question for another survey: "How do you prefer sending? How do you usually send?" (straight key, bug, non-iambic, iambic?) I love using a straight key, but use iambic paddles most of the time in order to be able to keep up with people.

"Thanks!" to the folks who participated.

Denny N9JXY

Date: 9 Jun 2001 15:27:03 CDT
From: Richard Clem <clem.law@usa.net>
To: qrp-1@lehigh.edu
Subject: [99771] XE2/W0IS Update
Message-ID: <20010609202703.11230.qmail@nwcst340.netaddress.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable

Saludos desde Mexico!

I just wanted to post a quick update on the XE2/W0IS QRPedition. I'm running a little bit late this afternoon, but it does look like the weather will hold, so I'm going to give it a try.

I should be on the air by about 4:30 US Central time (about one hour after this posting). I will try to post an update this evening, but if I'm not able to, you might want to listen for me tomorrow afternoon anyway. Also, if you find me on the air on 40 tonight as W0IS/5 (probably around midnight), I can provide updated information.

I should be QRV in about an hour as XE2/W0IS. I'll probably be somewhere near

7040, and will simply play it by ear!

TNX & 73,
Rick, W0IS

Get free email and a permanent address at <http://www.netaddress.com/?N=3D=1>

Date: Sat, 9 Jun 2001 14:29:11 -0700
From: Bob Nielsen <nielsen@oz.net>
To: qrp-1@lehigh.edu
Subject: [99772] Re: Vertical Antenna Advice
Message-ID: <20010609142911.A14048@oz.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

The Gap ads and web site reek a bit of "snake oil," in my opinion, however under the right conditions practically anything will radiate well enough to make a lot of contacts.

Last year, N0AX and K7LXC did a comparison study of several verticals, chronicled, with a lot of data, in a report available (for a price) from www.championradio.com. In 1999, they did a similar comparison of several popular yagis. The Cushcraft R-8 came out pretty well, except for not covering 80 meters as did the Butternut HF-6V and Hustler 6BTV. They also looked at others from Diamond, Gap and Force 12. As to which is the best, it depends a lot on what you are seeking.

73, Bob N7XY

On Sat, Jun 09, 2001 at 04:27:18AM -0700, Phil Wheeler wrote:

>
>
> Terry Bassett wrote:
> >
> > Hello Kevin,
> >
> > I also started out with a collection of dipoles bedecking every
> > available tall object near the house. Upon consultation with the
> > manager of the Office of Decorum and Order (xyl), a GAP Titan was
> > purchased. It has done just fine mounted just high enough to walk
> > under.
> > Any time the subject of antennas comes up many personal feelings
> > will get aired. I just want to say that you can work the world with a

> > GAP Titan. It will probably meet your needs as far as the Office of
> > Decorum and Order also.
> >
>
> Terry,
>
> Experiences with GAP Titan's have been mixed. Some swear by them and
> some swear at them.
>
> I put one up in 1995, mounted on a post in the backyard, just high
> enough to make the lower square "ring" unreachable. After a month of
> trying to make it work (poor SWR on some bands, consistently poorer
> reports than my other non-gain antennas .. e.g., G5RV), I took it down
> and sold it. I had a time constraint, based on upcoming surgery and
> rehabilitation; so it was take it down before it corroded (one mile from
> ocean) or keep it.
>
> In retrospect, I think the problem was in its location. Too many other
> vertical metal objects (e.g., masts, VHF/UHF antennas) nearby it. Doing
> it again, I would move it to the back of my property line (but that
> would require removal of a tree and close proximity to power lines)
>
> But now I have a 3 El beam for 10-15-20, the G5RV (80 mostly), a 30
> meter dipole, and a rotating dipole for 40, so all is OK.
>
> 73, Phil W7OX

--

Bob Nielsen, N7XY
Bainbridge Island, WA
IOTA NA-065, USI WA-028S

nielsen@oz.net
<http://www.oz.net/~nielsen>

Date: Sat, 09 Jun 2001 18:43:38 -0400
From: Fred Lesnick <flesnick@tbaytel.net>
To: FT 817 Group <FT817@yahoogroups.com>, hfpack <hfpack@yahoogroups.com>, Low
Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>,
QRP Canada <qrp-canada@neale.gpfn.sk.ca>, Wayne Letang <wletang@tbaytel.net>,
Bruce Rattray <rattray@gpfn.sk.ca>, Dave Kimpton <dkimpton@tbaytel.net>,
Subject: [99773] Lots of Fun...
Message-ID: <3B22A69A.2597908A@tbaytel.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Received my Yaesu FT 817 on the 30th of may, and having a ball with it.
Been working all bands with it and enjoying it..
Today, VE3AVS (Dave) and myself biked up to the Thunder Bay
Lookout(About 14 kms in from Pass Lake Ontario).. Set up an antenna for
40 metres, and made 3 qsos on or near the 40 metre QRP frequency...

The band was not in really great shape, but worked K2PTS, N9JWC, and
W8MEH.. While talking to all of these folks, I kept turning the power
down to the .5 watt level, and still they were able to copy me...I was
running the radio off alkaline batteries today.....
When I waorked Frank W8MEH I was at 2.5 watts and received a 599, when I
switched to .5 w, he gave me a 579....So I love it....

This was our preliminary Field Day test site, will be hauling the tent
trailer up and using the Little Thunder QRP Club Call, so listen for
VE3LTQ during field day....

73 Fred
VE3FAL
EN58df

Date: Sat, 9 Jun 2001 17:50:18 -0500
From: George Franklin <w0av@juno.com>
To: W3ERU@DRIX.NET
Cc: qrp-l@Lehigh.EDU
Subject: [99774] Re: Thanks
Message-ID: <20010609.175019.-1761299.1.w0av@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello Wes,

Well said, concerning QRP-L. I really enjoy all the postings, OT or not.

I take this opportunity to commend Paul, NA5N, for his outstanding
illustrations in QHB#5, the April, 2001, issue of Hambrewer magazine.
Although I probably will not build the subject transverter, I enjoyed
studying the excellent drawings while reading the text. Well done, Paul.

72/73/74 de George/W0AV
Hamming since 1935

End of QRP-L Digest 2215
